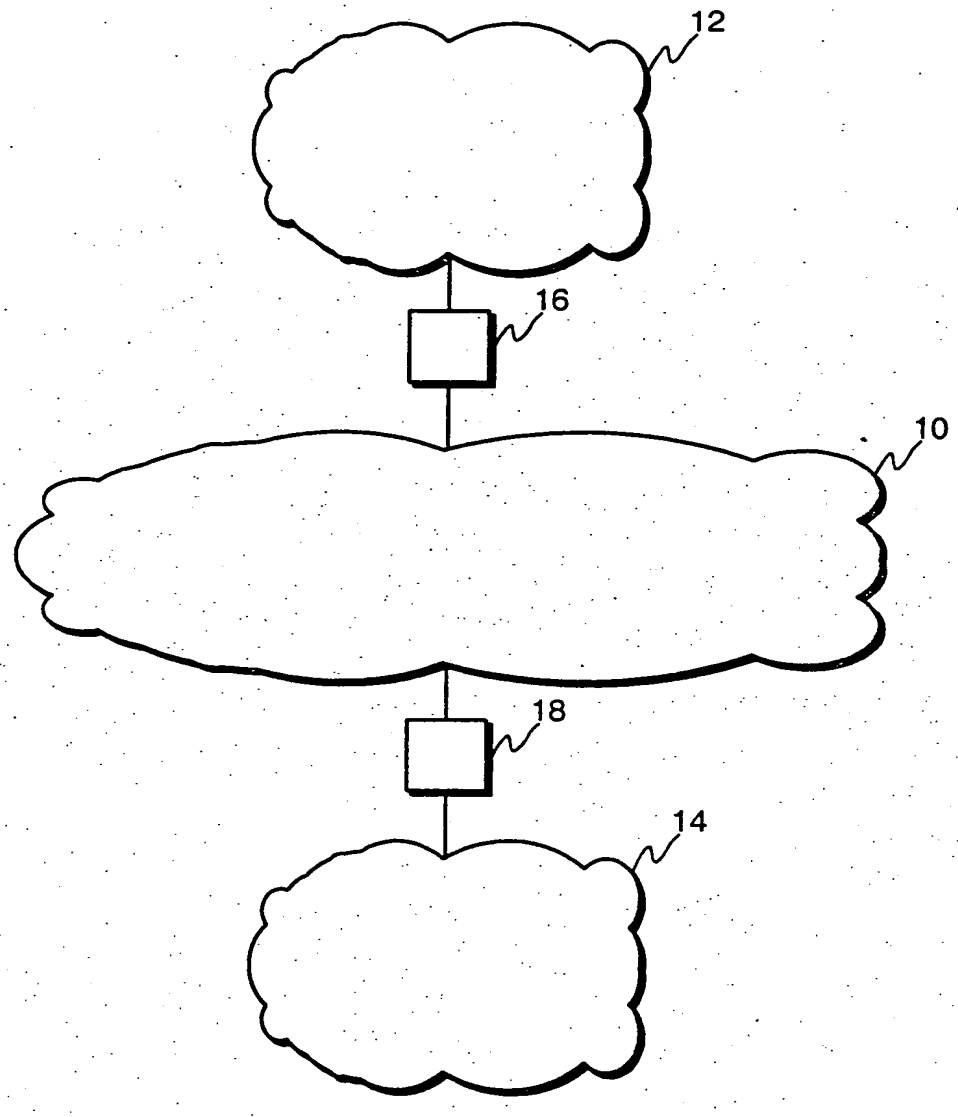

Fig. 1

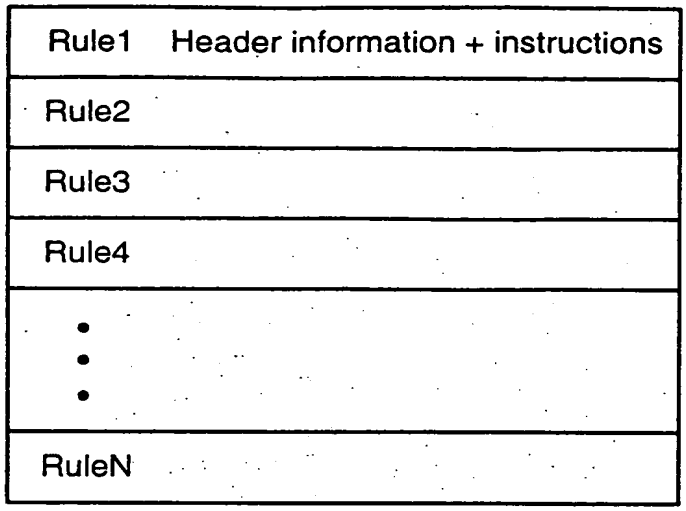
Rule1 Header information + instructions
Rule2
Rule3
Rule4
RuleN
20

Fig. 2

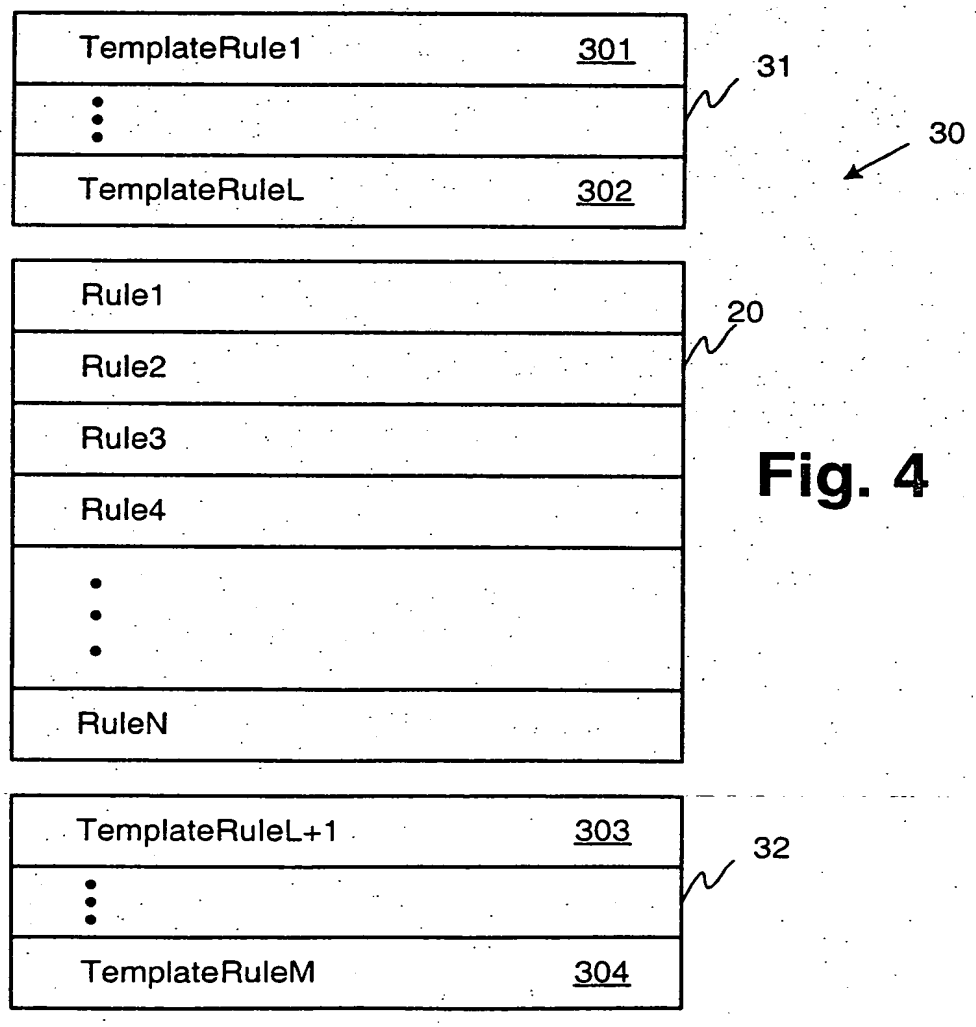
TemplateRule1 301
TemplateRuleL 302
31
30
Rule1
Rule2
Rule3
Rule4
RuleN
20
TemplateRuleL+1 303
TemplateRuleM 304
32

Fig. 4

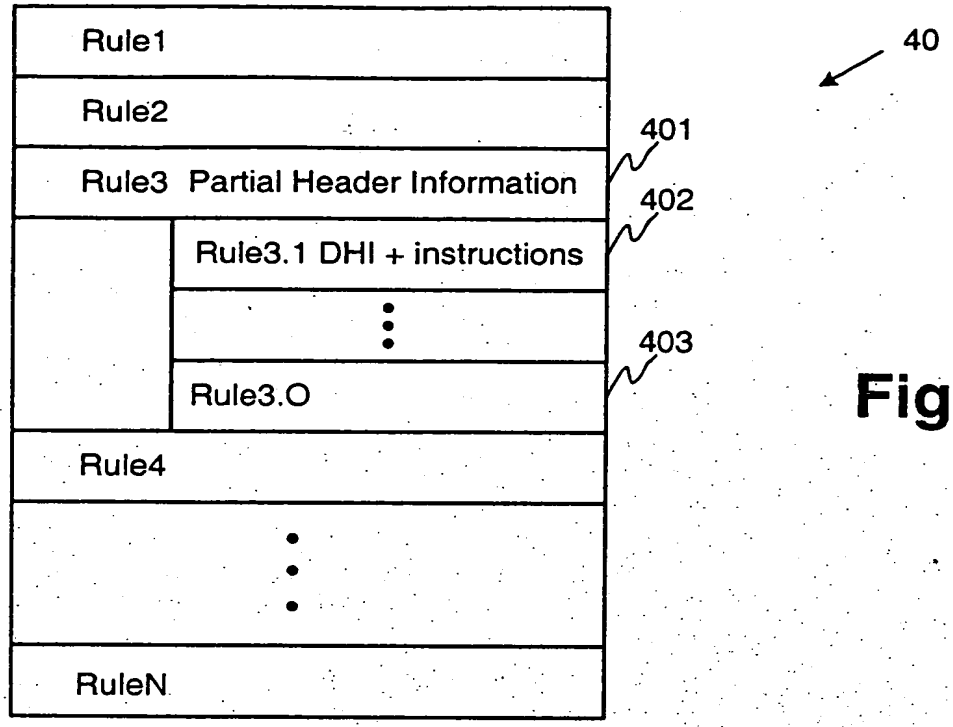
Rule1
Rule2
Rule3 Partial Header Information
Rule3.1 DHI + instructions
Rule3.O
Rule4
RuleN
40
401
402
403

Fig. 3a

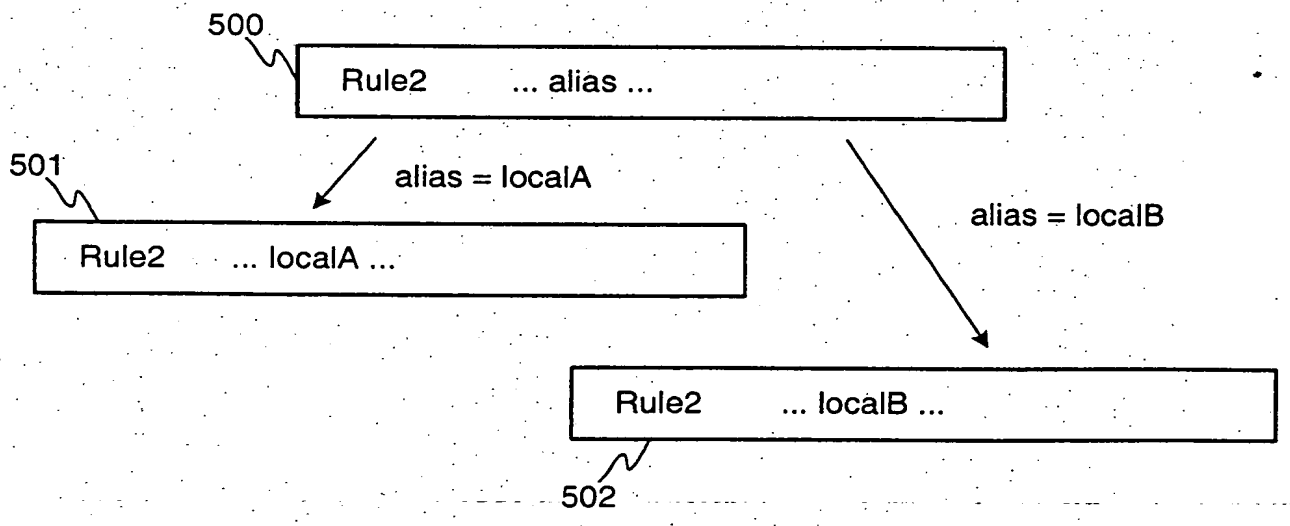
500
Rule2 ... alias ...
501
alias = localA
alias = localB
Rule2 ... localA ...
Rule2 ... localB ...
502

Fig. 5

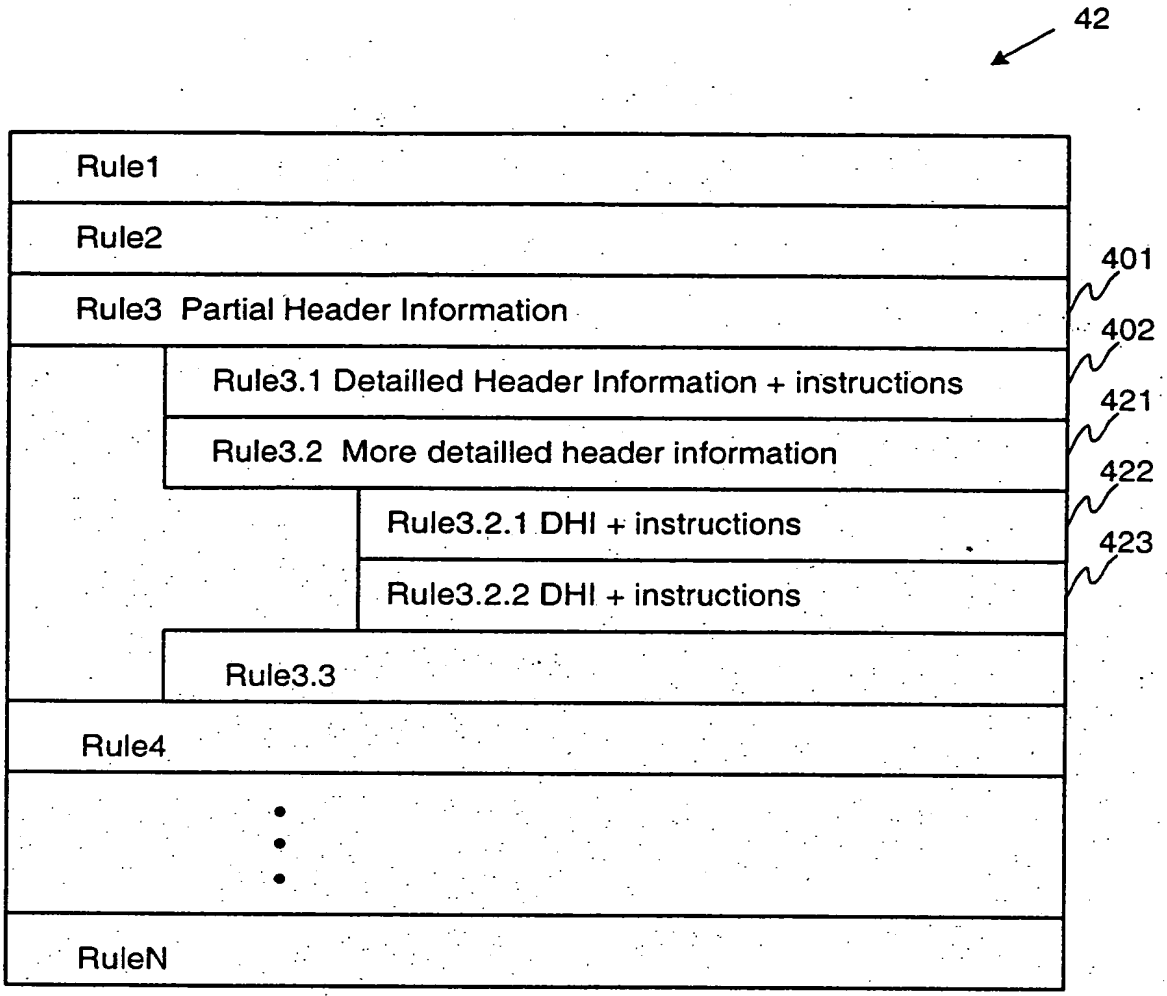
42
Rule1
Rule2
Rule3 Partial Header Information
Rule3.1 Detailled Header Information + instructions
Rule3.2 More detailled header information
Rule3.2.1 DHI + instructions
Rule3.2.2 DHI + instructions
Rule3.3
Rule4
RuleN
401
402
421
422
423

Fig. 3b

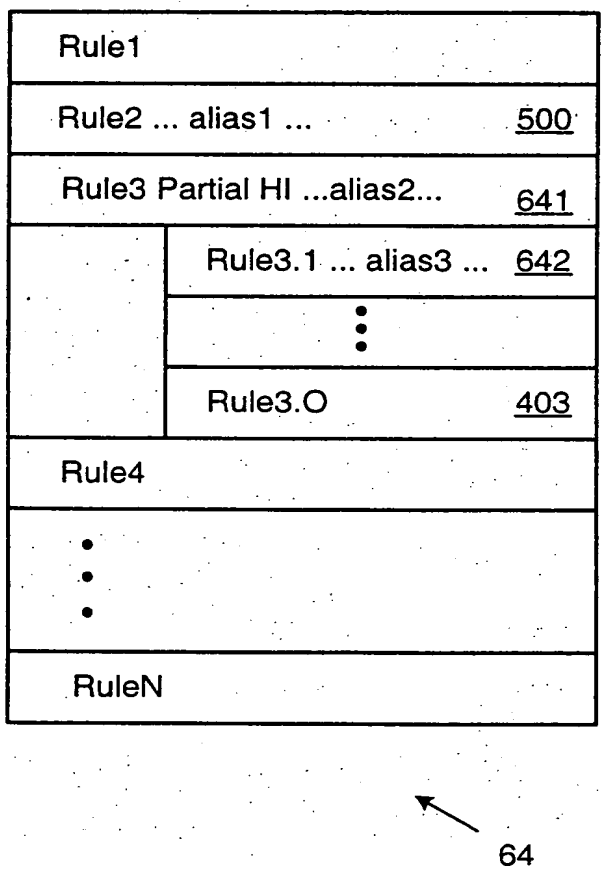
Rule1
Rule2 ... alias1 ... 500
Rule3 Partial HI ...alias2... 641
Rule3.1 ... alias3 ... 642
Rule3.O 403
Rule4
RuleN
64

Fig. 6a

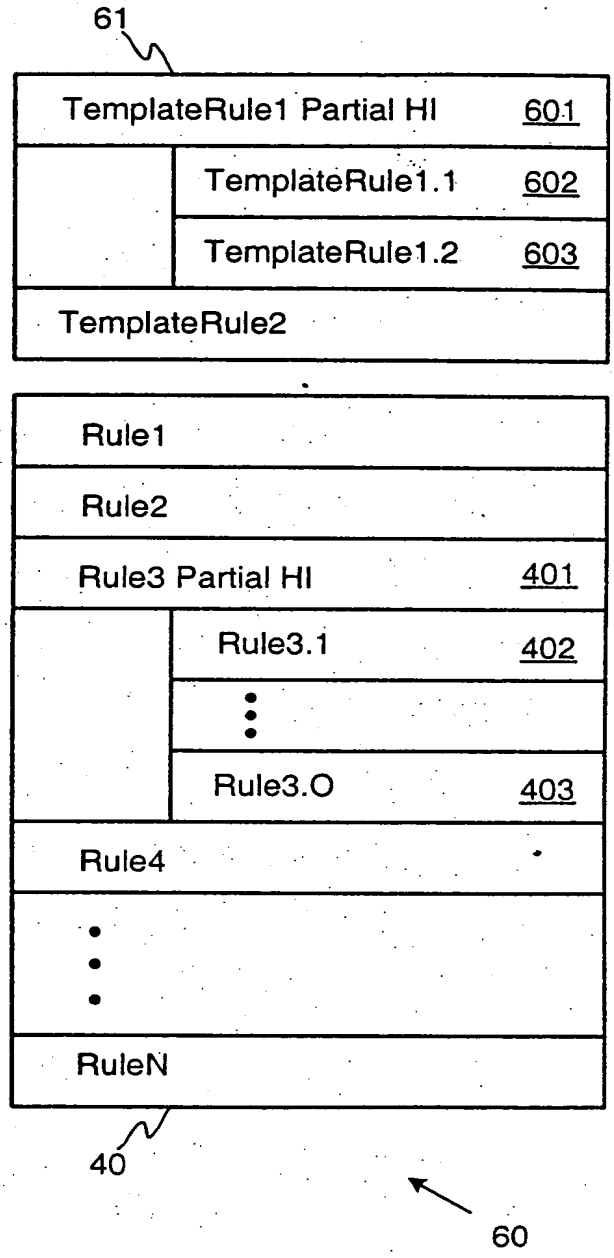
61
TemplateRule1 Partial HI 601
TemplateRule1.1 602
TemplateRule1.2 603
TemplateRule2
Rule1
Rule2
Rule3 Partial HI 401
Rule3.1 402
Rule3.O 403
Rule4
RuleN
40
60

Fig. 6b

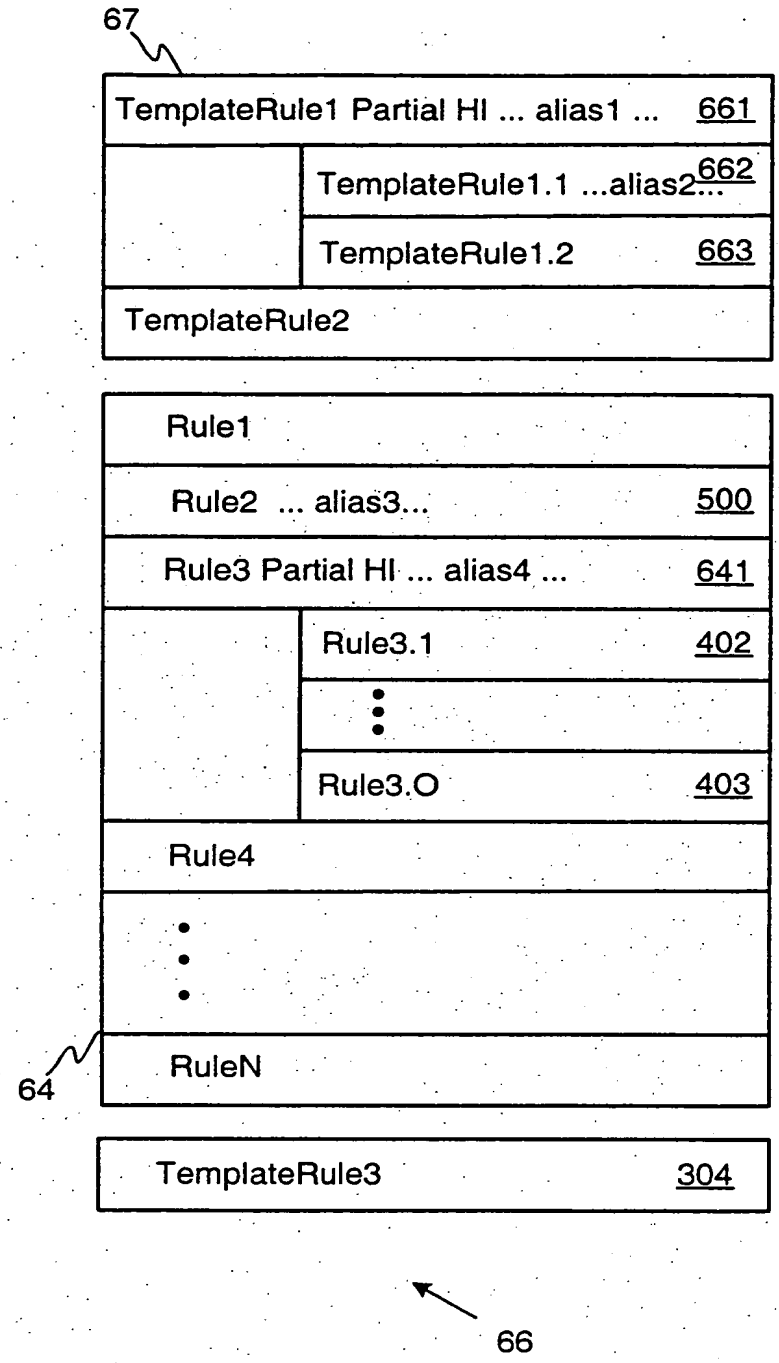
67
TemplateRule1 Partial HI ... alias1 ... 661
TemplateRule1.1 ...alias2... 662
TemplateRule1.2 663
TemplateRule2
Rule1
Rule2 ... alias3... 500
Rule3 Partial HI ... alias4 ... 641
Rule3.1 402
Rule3.O 403
Rule4
RuleN
64
TemplateRule3 304
66

Fig. 6c

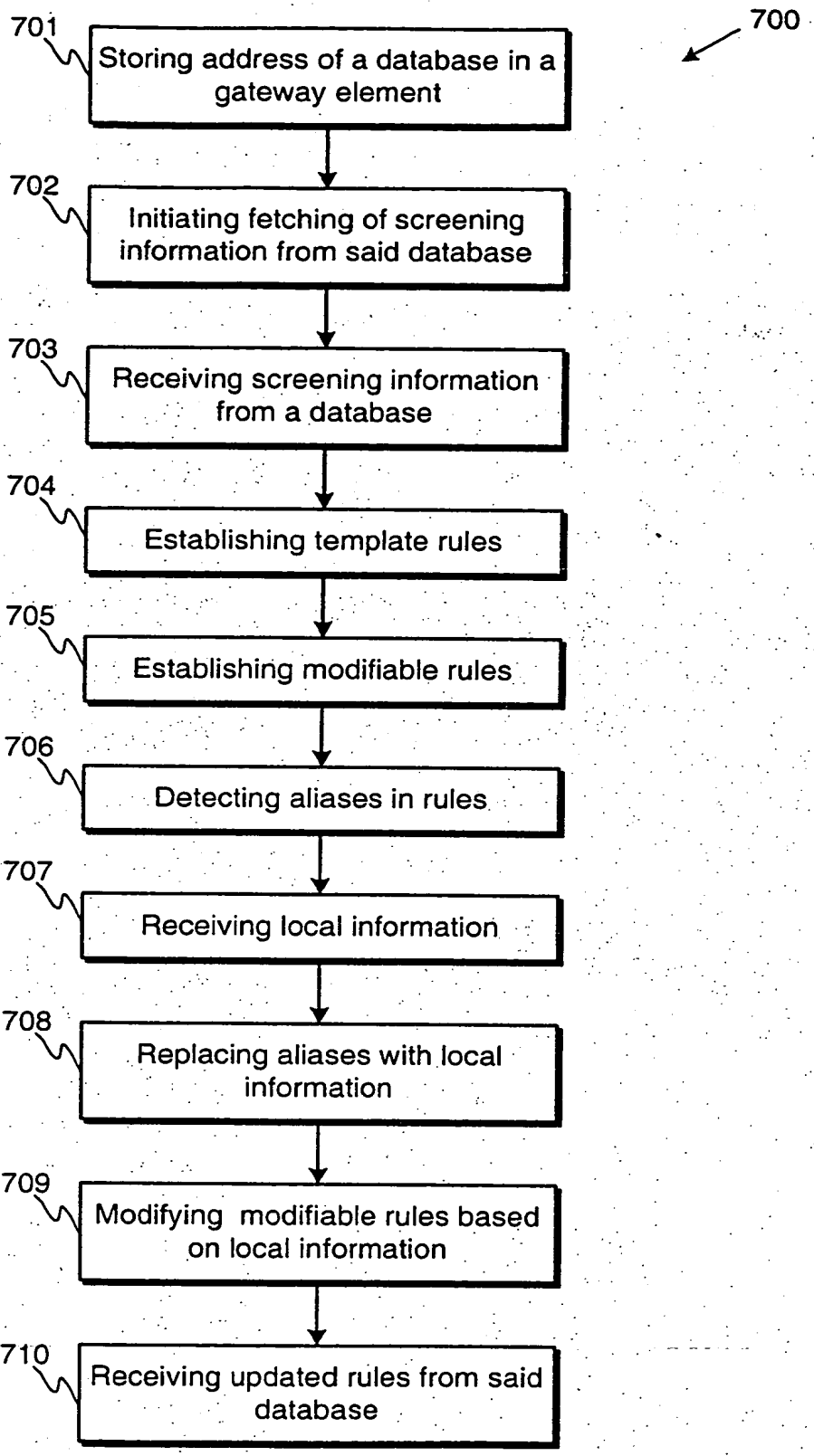
700
701
Storing address of a database in a gateway element
702
Initiating fetching of screening information from said database
703
Receiving screening information from a database
704
Establishing template rules
705
Establishing modifiable rules
706
Detecting aliases in rules
707
Receiving local information
708
Replacing aliases with local information
709
Modifying modifiable rules based on local information
710
Receiving updated rules from said database

Fig. 7a

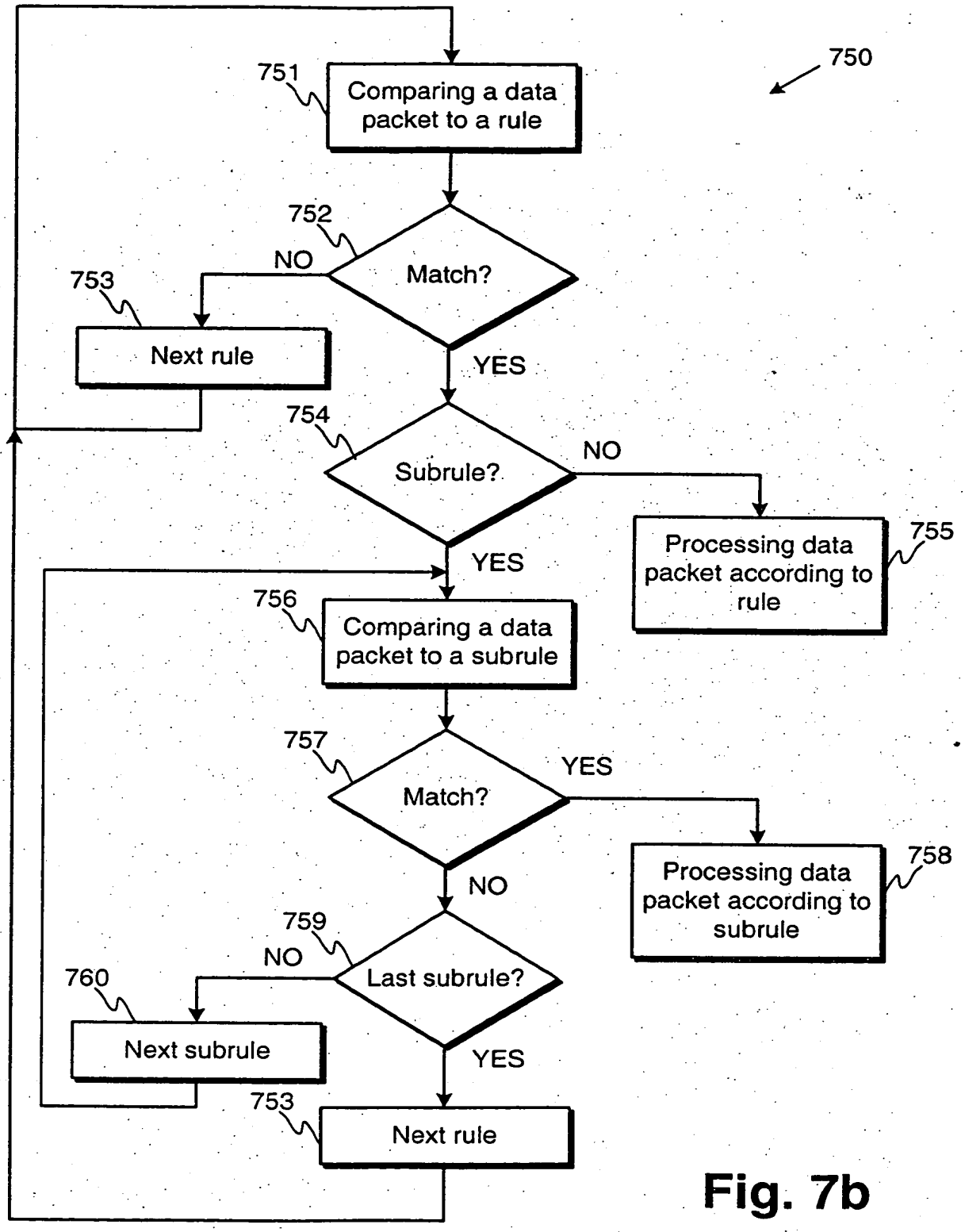
750
751
Comparing a data packet to a rule
752
Match?
NO
753
Next rule
YES
754
Subrule?
NO
755
Processing data packet according to rule
YES
756
Comparing a data packet to a subrule
757
Match?
YES
758
Processing data packet according to subrule
NO
759
Last subrule?
NO
760
Next subrule
YES
753
Next rule

Fig. 7b

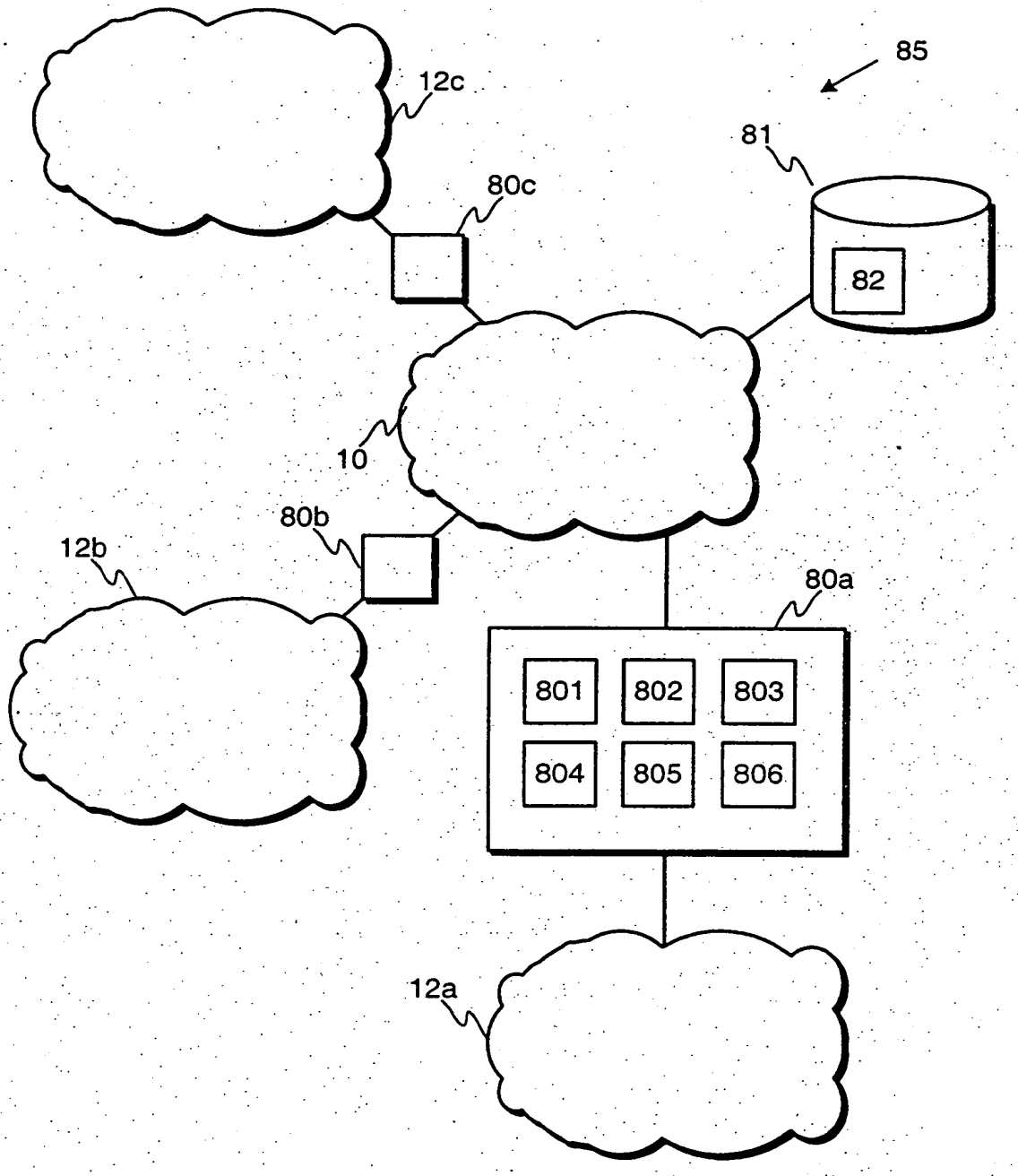

Fig. 8